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NOTICE OF ALLOWANCE AND FEE(S) DUE

54067

7590

06/10/2011

OKADA C/O KEATING & BENNETT, LLP 1800 Alexander Bell Drive SUITE 200 Reston, VA 20191 EXAMINER
PEETS, MONIQUE R

PAPER NUMBER

ART UNIT

DATE MAILED: 06/10/2011

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/595,942	05/20/2006	Makoto KUMATORIYA	38195.79	9417

TITLE OF INVENTION: LENS MATERIAL, OPTICAL ELECTRONIC COMPONENT AND OPTICAL ELECTRONIC DEVICE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	09/12/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN <u>THREE MONTHS</u> FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. <u>THIS STATUTORY PERIOD CANNOT BE EXTENDED.</u> SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

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If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where m

maintenance fee notifications. CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) 54067 7590 06/10/2011 OKADA C/O KEATING & BENNETT, LLP 1800 Alexander Bell Drive SUITE 200				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.				
								Reston, VA 201
							(Signature)	
			L				(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	OR	A	TTORNEY DOCKET NO.	CONFIRMATION NO.	
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nonprovisional	NO	\$1510	\$300		\$0	\$1810	09/12/2011	
EXAM	MINER	ART UNIT	CLASS-SUBCLASS					
PEETS, M	ONIQUE R	1761	359-019000					
CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			or agents OR, altern (2) the name of a si registered attorney of 2 registered patent a listed, no name will	ne names of up to 3 registered patent attorneys ents OR, alternatively, ne name of a single firm (having as a member a tered attorney or agent) and the names of up to istered patent attorneys or agents. If no name is 1, no name will be printed.				
PLEASE NOTE: Un recordation as set for (A) NAME OF ASSI	less an assignee is ident th in 37 CFR 3.11. Com GNEE	pletion of this form is NC	data will appear on the T a substitute for filing (B) RESIDENCE: (CI	e patent. an assign TY and S	nment. STATE OR CO	UNTRY)	document has been filed for group entity	
Please check the appropri	riate assignee category of							
4a. The following fee(s) Issue Fee Publication Fee (1) Advance Order - +	4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).							
5. Change in Entity Sta								
	ns SMALL ENTITY state		* *			ENTITY status. See 37		
interest as shown by the	records of the United Sta	uired) will not be accepte ates Patent and Trademark	k Office.	n the app	plicant; a registe	ered attorney or agent; or	the assignee or other party in	
Authorized Signature				Γ	Date			
Typed or printed name				Registration No.				
This collection of inforn an application. Confider submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223	ntiality is governed by 35 d application form to the ions for reducing this bu Virginia 22313-1450. DC	CFR 1.311. The information of U.S.C. 122 and 37 CFR to USPTO. Time will vary urden, should be sent to the DOT SEND FEES OR (1)	on is required to obtain 1.14. This collection is y depending upon the in the Chief Information Of COMPLETED FORMS	or retain a estimate dividual ficer, U.S TO THI	a benefit by the d to take 12 mi case. Any com S. Patent and Tr S ADDRESS. S	public which is to file (a nutes to complete, includ ments on the amount of ademark Office, U.S. De SEND TO: Commissione	nd by the USPTO to process) ing gathering, preparing, and time you require to complete partment of Commerce, P.O. r for Patents, P.O. Box 1450,	

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OKADA				PEETS, MONIQUE R	
C/O KEATING	& BEN	NETT, LLP			
1800 Alexander				ART UNIT	PAPER NUMBER
SUITE 200				1761	
Reston, VA 201	91				

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 634 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 634 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

- 1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
- 2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
- 3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
- 4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
- 5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
- 6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
- 7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
- 8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
- 9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

	Application No.	Applicant(s)		
	10/595.942	KUMATORIYA ET AL.	KUMATORIYA ET AI	
Notice of Allowability	Examiner	Art Unit		
	MONIQUE PEETS	1761		
	WONIQUE FEETS	1701		
The MAILING DATE of this communication appeal all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED i or other appropriate comm GHTS. This application is	n this application. If not included unication will be mailed in due course. THIS		
1. This communication is responsive to <u>3/22/2011</u> .				
2. X The allowed claim(s) is/are 4 and 6.				
 3. Acknowledgment is made of a claim for foreign priority ungranged. a) □ All b) ☑ Some* c) □ None of the: 1. □ Certified copies of the priority documents have 		or (f).		
2. ☐ Certified copies of the priority documents have		an No		
Sopies of the certified copies of the priority documents and the priority documents are priority documents.	• •			
International Bureau (PCT Rule 17.2(a)).	samonto havo boom rocon o	a mane national stage application from the		
* Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	ENT of this application.			
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 				
5. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.			
(a) \square including changes required by the Notice of Draftspers	on's Patent Drawing Revie	w (PTO-948) attached		
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date				
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment o	r in the Office action of		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the				
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT				
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of It	nformal Patent Application		
2. ☐ Notice of Preferences Gled (110-692) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)		Summary (PTO-413),		
	Paper No.	/Mail Date		
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 	/. □ Examiners	Amendment/Comment		
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material		Statement of Reasons for Allowance		
/LINC SILL CLIO!/	9.	-		
/LING-SIU CHOI/ Primary Examiner, Art Unit 1762				
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Application/Control Number: 10/595,942 Page 2

Art Unit: 1761

DETAILED ACTION

1. This Office action is in response to arguments filed 3/22/2011.

2. Claims 4 and 6 are pending.

Allowable Subject Matter

- 3. Claims 4 and 6 are allowed.
- 4. The following is an examiner's statement of reasons for allowance:

The present claims are allowable over the closest references Shinji et al. (JP 2002-300001).

Claim Analysis

Summary of Claim 4;

A **lens** comprising;

lithium tantalate including a lithium oxide and a tantlum oxide; wherein a **molar** composition ratio of the lithium oxide and the tantalum oxide ($\text{Li}_2\text{O}/\text{Ta}_2\text{O}_5$) in the lithium tantalate is in a range of 0.975 to 0.982; and

a birefringence of the lithium tantalate is in a range of -0.0005 to 0.0005.

Shinji teaches a substrate material for optoelectronic devices that comprises a lithium tantalate single crystal having an optical refractive index of 2.1767-2.1795 and a double refraction value (birefringence) of 0.0004-0.0032 [abstract]. Lithium tantalate is made from lithium oxide and tantalum oxide. However, Shinji does not teach or fairly

suggest a *lens* comprising lithium tantalate including a lithium oxide and a tantalum oxide; wherein a *molar composition ratio of the lithium oxide and the tantalum oxide* (Li_2O/Ta_2O_5) in the lithium oxide and the tantalate is in a range of 0.975 to 0.982; and a birefringence of the lithium tantalate is in a range of -0.0005 to 0.0005.

In light of the above discussion, it is evident as to why he present claims are patentable over the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MONIQUE PEETS whose telephone number is (571)270-7351. The examiner can normally be reached on Monday thru Friday, 8:00am to 5:00pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Harold Pyon can be reached on 571-272-1498. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

/MONIQUE PEETS/ Examiner, Art Unit 1761 June 3, 2011 /LING-SIU CHOI/ Primary Examiner, Art Unit 1762 Application/Control Number: 10/595,942 Page 4

Art Unit: 1761

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